



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

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Status: **Current** Issue No: 0

Date of Issue: 2025-11-03

Applicant: **GASDNA Co., Ltd.**  
101, Bukhang-ro 193 beon-gil, Seo-gu  
Incheon 22856  
**Korea, Republic of**

Equipment: **Smart Gas Detector / Transmitter DA-600S**

Optional accessory:

Type of Protection: **flameproof enclosure "d", dust protection by enclosure "t"**

Marking: Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db  
Ta: -20 °C to +50 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Sang He Kim**

Position:

**President of the Board**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**KSC POLAND Sp. z o.o.**  
**Chorzowska 150 Street**  
**Katowice 40-101**  
**Poland**





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Manufacturer: **GASDNA Co., Ltd.**  
101, Bukhang-ro 193 beon-gil, Seo-gu  
Incheon 22856  
**Korea, Republic of**

Manufacturing locations: **GASDNA Co., Ltd.**  
101, Bukhang-ro 193 beon-gil, Seo-gu  
Incheon 22856  
**Korea, Republic of**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[PL/KSCP/ExTR25.0044/00](#)

Quality Assessment Report:

[PL/KSCP/QAR21.0030/02](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

DA-600S detects various combustible & toxic gases leaked from industrial areas for gas producers, gas users, gas reservoirs, gas by-producers, and so on, in order to prevent any accidents in advance. DA-600S converts digital signal into the 4-20mA standard current output signal which can be transmitted to various devices such as PLC, DDC, or recorder to build comprehensive gas monitoring system. Also, DA-600S provides RS-485 communication signal and alarm relay contact. DC 4-20mA standard output signal realizes max 2500m long distance output signal transmission and RS-485 communication signal realizes max 1000m long distance signal transmission. See addendum

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- In accordance with clause 5.1 of IEC 60079-1 the flamepaths shall not to be repaired by the end user.
- The equipment may generate a risk of electrostatic discharge. Therefore, to minimize the risk from electrostatic discharge, follow guidance provided in the manufacturer's instruction manual.

## **Annex:**

[IECEX\\_IECEX KSCP 25.0047X\\_Addendum.pdf](#)



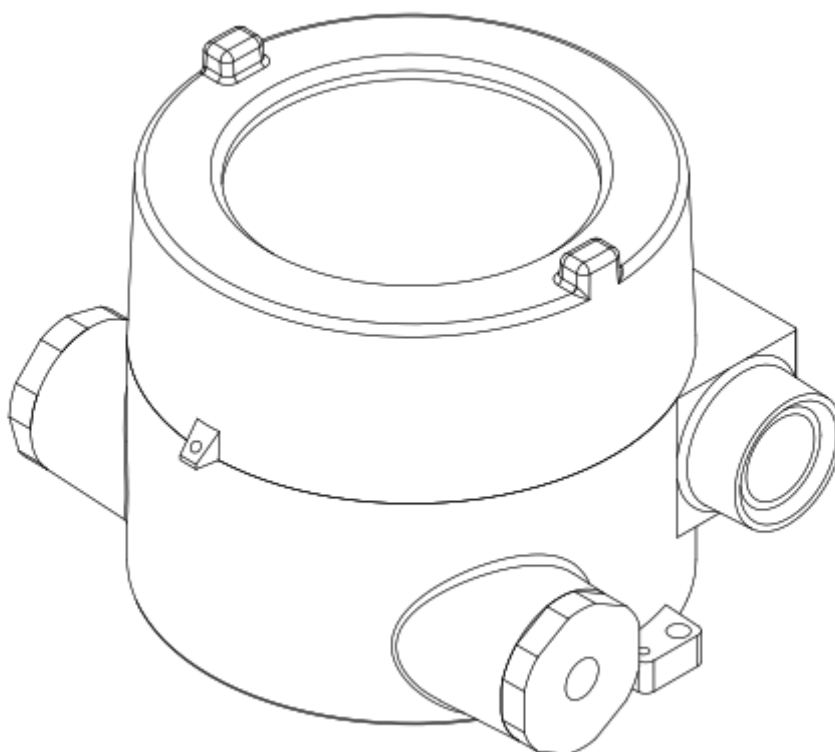
## Addendum to IECEx Certificate

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Issue.....:	Issue 0

### Description

DA-600S detects various combustible & toxic gases leaked from industrial areas for gas producers, gas users, gas reservoirs, gas by-producers, and so on, in order to prevent any accidents in advance. DA-600S converts digital signal into the 4-20mA standard current output signal which can be transmitted to various devices such as PLC, DDC, or recorder to build comprehensive gas monitoring system. Also, DA-600S provides RS-485 communication signal and alarm relay contact. DC 4-20mA standard output signal realizes max 2500m long distance output signal transmission and RS-485 communication signal realizes max 1000m long distance signal transmission.

Equipment construction looks as below:



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The equipment has the following marking and warning:

Manufacturer's name or Registered trade mark	GASDNA Co., Ltd.
Address	101, Bukhang-ro 193beon-gil, Seo-gu, Incheon, 22856, Republic of Korea
Equipment name	Smart Gas detector / transmitter
Type identification	DA-600S
Serial No and date of manufacturer	XXXX
IECEX Certificate number	IECEX KSCP 25.0047X
Code	Ex db IIC T6 Gb Ex tb IIIC T85°C Db
Ambient	-20°C to +50°C
Rating	Input power: DC 24V, 180mA (Max) External outputs: 4-20mA, RS485 Modbus, Relay x 2SPST(220V AC : 0.3A)
Cable entry	NPT 3/4"
Warnings	Do not open when an explosive atmosphere is present Potential electrostatic charging hazard – See instructions

**Conditions of manufacture:**

- Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or component do not affect the compliance of the certified product is the subject of this certificate. The manufacturer shall also inform KSCP of any modifications that may impinge upon the explosion safety design of their products.
- A routine overpressure test needs to be applied to containment system with 9.9 kPa for 2 minutes for every product.
- The enclosure shall be subjected to a routine overpressure test in accordance with IEC 60079-1, clause 16. Each production shall be tested with 2 427 kPa test pressure with no failures

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